

GenCore version 4.5  
copyright (c)1993 - 2000 Compugen Ltd.

## OM nucleic - nucleic search, using sw model

Run on: September 12, 2002, 09:41:26 ; Search time 99.3 Seconds

4435.256 Million cell updates/sec

Title: US-09-719-017A-2

Perfect score: 1793

Sequence: 1 gaattccctgttgcacaat...caattactcatgtccccggg 1793

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 385353 seqs, 12816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_NA:\*

1: /cgnt2\_6/prodata/2/ina/5A.COMB.seq:\*

2: /cgnt2\_6/prodata/2/jna/5B.COMB.seq:\*

3: /cgnt2\_6/prodata/2/ina/6A.COMB.seq:\*

4: /cgnt2\_6/prodata/2/ina/6B.COMB.seq:\*

5: /cgnt2\_6/prodata/2/ina/PCITS\_COMB.seq:\*

6: /cgnt2\_6/prodata/2/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	404	22.5	5096	1	US-09-106-433A-3	Sequence 3, Appli
2	404	22.5	5110	1	US-08-106-433A-4	Sequence 4, Appli
3	404	22.5	5110	1	US-08-106-433A-5	Sequence 5, Appli
4	404	22.5	5110	1	US-08-106-433A-6	Sequence 6, Appli
5	404	22.5	5110	1	US-08-106-433A-7	Sequence 7, Appli
6	404	22.5	5110	1	US-08-106-433A-8	Sequence 8, Appli
7	404	22.5	5110	1	US-08-106-433A-9	Sequence 9, Appli
8	404	22.5	5110	1	US-08-106-433A-10	Sequence 10, Appli
9	404	22.5	5110	1	US-08-106-433A-11	Sequence 11, Appli
10	404	22.5	5110	1	US-08-106-433A-12	Sequence 12, Appli
11	404	22.5	5110	1	US-08-106-433A-13	Sequence 13, Appli
12	404	22.5	5110	1	US-08-106-433A-14	Sequence 14, Appli
13	404	22.5	5110	1	US-08-106-433A-15	Sequence 15, Appli
14	332.8	18.6	4476	3	US-08-801-344-2	Sequence 1, Appli
15	332.8	18.6	4476	4	US-09-498-599-2	Sequence 2, Appli
c	15	18.6	4593	3	US-09-401-344-1	Sequence 3, Appli
c	17	18.6	4593	4	US-09-498-599-1	Sequence 4, Appli
c	18	18.6	4593	2	US-08-971-036-1	Sequence 5, Appli
c	19	18.6	4745	3	US-09-966-570-1	Sequence 6, Appli
c	20	18.3	1097	1	US-08-761-258-7	Sequence 7, Appli
c	21	18.3	1097	2	US-08-977-306-7	Sequence 8, Appli
c	22	18.3	3301	2	US-08-447-430A-42	Sequence 9, Appli
c	23	18.3	3423	2	US-08-447-430A-40	Sequence 10, Appli
c	24	18.3	3423	4	US-09-485-737B-86	Sequence 11, Appli
c	25	18.3	3474	2	US-08-447-430A-41	Sequence 12, Appli
c	26	18.3	3474	2	US-08-318-837-10	Sequence 13, Appli
c	27	18.3	4009	2	US-08-500-860A-2	Sequence 14, Appli

RESULT	1	US-08-106-433A-3	Patent No. 5453363-1
		; Sequence 3, Appli	Sequence 3, Appli
		; Patent No. 5385834	Sequence 4, Appli
		; GENERAL INFORMATION:	Sequence 5, Appli
		; APPLICANT: Richard A. Ikeda	Sequence 6, Appli
		; TITLE OF INVENTION: Mutant T7 RNA Polymerase GPI(Lys222)	Sequence 7, Appli
		; TITLE OF INVENTION: Exhibiting Altered Promoter Recognition	Sequence 8, Appli
		; NUMBER OF SEQUENCES: 23	Sequence 9, Appli
		; CORRESPONDENCE ADDRESS: Deveaux, Colton, and Marquis	Sequence 10, Appli
		; STREET: Two Midtown Plaza, Suite 1400,	Sequence 11, Appli
		; CITY: Atlanta	Sequence 12, Appli
		; STATE: Georgia	Sequence 13, Appli
		; ZIP: 30309	Sequence 14, Appli
		; COMPUTER READABLE FORM:	Sequence 15, Appli
		; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storage	Sequence 16, Appli
		; COMPUTER: Apple Macintosh	Sequence 17, Appli
		; OPERATING SYSTEM: McIntosh 7.1	Sequence 18, Appli
		; SOFTWARE: Microsoft Word 5.1	Sequence 19, Appli
		; CURRENT APPLICATION DATA:	Sequence 20, Appli
		; APPLICATION NUMBER: US-08/106,433A	Sequence 21, Appli
		; FILING DATE: 08/13/93	Sequence 22, Appli
		; CLASSIFICATION: 435	Sequence 23, Appli
		; PRIORITY APPLICATION DATA:	Sequence 24, Appli
		; APPLICATION NUMBER: NO. 5385834 Applicable	Sequence 25, Appli
		; FILING DATE: NO. 5385834 Applicable	Sequence 26, Appli
		; ATTORNEY/AGENT INFORMATION:	Sequence 27, Appli
		; NAME: Deveaux, Colton, and Marquis	Sequence 28, Appli
		; NAME: Colton, Laurence P.	Sequence 29, Appli
		; REGISTRATION NUMBER: Reg. No. 5385834 33,371	Sequence 30, Appli
		; REFERENCE DOCKET NUMBER: 10733-161	Sequence 31, Appli
		; TELECOMMUNICATION INFORMATION:	Sequence 32, Appli
		; TELEFAX: 404-875-8817	Sequence 33, Appli
		; INFORMATION FOR SEQ ID NO: 3:	Sequence 34, Appli
		; INFORMATION CHARACTERISTICS:	Sequence 35, Appli
		; LENGTH: 5096 base pairs	Sequence 36, Appli
		; TYPE: nucleic acid	Sequence 37, Appli
		; STRANDEDNESS: double	Sequence 38, Appli
		; TOPOLOGY: circular	Sequence 39, Appli
		; MOLECULE TYPE: other nucleic acid	Sequence 40, Appli
		; HYPOTHETICAL: No	Sequence 41, Appli
		; ANTI-SENSE: No	Sequence 42, Appli
		; FRAGMENT TYPE: No.	Sequence 43, Appli
		; ORIGINAL SOURCE: applicable	Sequence 44, Appli
		; ORGANISM: No. 5385834 applicable	Sequence 45, Appli
		; STRAIN: No. 5385834 applicable	Sequence 46, Appli



AUTHORS: Ikeda, R.A., Chang, L.L., and Warshamana, G.S.  
TITLE: Selection and Characterization of a Mutant T7  
TITLE: RNA Polymerase that Recognizes an Expanded Range  
TITLE: of T7-like Promoters  
JOURNAL: Biochemistry  
VOLUME: 32  
ISSUE: 35  
PAGES: 9115-9124  
DATE: Sept. 7, 1993  
DOCUMENT NUMBER:  
FILING DATE:  
PUBLICATION DATE:  
DOCUMENT NUMBER:  
FILING DATE:  
PUBLICATION DATE:  
RELEVANT RESIDUES IN SEQ ID NO: 1 to 5110

US-08-106433A-4

**COMPUTER READABLE FORM:** MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storage  
**COMPUTER:** Apple Macintosh  
**OPERATING SYSTEM:** McIntosh 7.1  
**SOFTWARE:** Microsoft Word 5.1  
**CURRENT APPLICATION DATA:**  
APPLICATION NUMBER: US/08/106, 433A  
FILING DATE: 08/13/93  
CLASSIFICATION: 435  
**PRIOR APPLICATION DATA:**  
APPLICATION NUMBER: NO. 5385834 Applicable  
FILING DATE: NO. 5385834 Applicable  
**ATTORNEY/AGENT INFORMATION:**  
NAME: Deveau, Colton, and Marquis  
NAME: Colton, Laurence P.  
REGISTRATION NUMBER: Reg. No. 5385834 33,371  
REFERENCE/DOCKET NUMBER: 10733-161

Query Match 22.5%; Score 404; DB 1; Length 510;  
 Best Local Similarity 96.5%; Pred. No. 8.9e-91; Mismatches 0; Indels 0; Gaps 0;  
 Matches 413; Conservative 0; MisMatches 15; Insets 0;

QY 1267 aggtcgacccatggggatcgaaacttgggtccacccatccggaaactcagaag 1326  
 Db 1251 AGATTCCTGGGAGTAGCCCGGACCTGGCCACTGACCTGAG 1310  
 QY 1327 tgaacccgcgtacggcgatggtagtgggtctccacatggactcg 1386  
 Db 1311 TGAACCGCGTACGCCATGGTAGTGGGTCTCCCATGGAGACTGCC 1370  
 QY 1387 aggcataacaacaaacgaaaggctcgaaagactggccttcggtttatctgtgt 1446  
 Db 1371 AGGCATCAATAAACGAAAGGCTCAGTCGAAGACTGCCATTCTGAGT 1430  
 QY 1447 ttgcggtaaaggcttcgtggatggacaaatccggaggaggatggatgg 1506  
 Db 1431 TTGTCGGGAACGCTTCCTGACTAGAACATTCGGGGAGCGGAATTGAGCTGG 1490  
 QY 1507 aaccaacggccggagggtggcgccggacggccataactccggatcaatt 1566  
 Db 1491 AACCAACGCCGGAGGGTGCGGGAGACGCCGCATANACTGCCAGGATCATT 1550  
 QY 1567 aacgagaaggccatccgtacggatggcctttgcgttctaccaaacttcctgtcg 1626  
 Db 1551 AACGAGAGGCCATCTGACGGATTGCGTTTCTACAACTCTTCCTGTC 1610  
 QY 1627 atatctaaggccatccccacagatccgttaactagctcggtttgtcatcaggaa 1686  
 Db 1611 ATATCTACAAAGCATCCCCACAGATACGGTAACTAGCTCGTTTGCATCAGGAA 1670  
 QY 1687 gcccgtat 1694  
 Db 1671 GCAGCTGT 1678

RESULT 4

US-08-106-433A-6

; Sequence 6: Application US/08106433A

; PATENT NO. 5385834

; GENERAL INFORMATION:

; APPLICANT: Richard A. Ikeda

; TITLE OF INVENTION: Mutant T7 RNA Polymerase GP1(Lys222) Exhibiting Altered Promoter Recognition

; NUMBER OF SEQUENCES: 23

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Devereau, Colton, and Marcusis

; STREET: Two Midtown Plaza, Suite 1400,

; CITY: Atlanta, GA

; STATE: Georgia

; ZIP: 30309

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storage

; COMPUTER: Apple Macintosh

; OPERATING SYSTEM: Macintosh 7.1

; SOFTWARE: Microsoft Word 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/106,433A

; FILING DATE: 08/13/93

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: No. 5385834 Applicable

; FILING DATE: Nov. 5/85834 Applicable

; ATTORNEY/AGENT INFORMATION:

; NAME: Devereau, Colton, and Marquis

; NAME: Colton, Laurence P.

; REGISTRATION NUMBER: Reg. No. 5385834 33,371

; REFERENCE/DOCKET NUMBER: 10733-161

; TELEPHONE: 404-875-8817

; TELEFAX: 404-875-8505

; INFORMATION FOR SEQ ID NO: 6:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 510 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: circular

; MOLECULE TYPE: other nucleic acid

; HYPOTHETICAL: No

; ANTI-SENSE: No

; FRAGMENT TYPE: No. 5385834 applicable

; ORIGINAL SOURCE:

; ORGANISM: No. 5385834 applicable

; STRAIN: No. 5385834 applicable

; INDIVIDUAL ISOLATE: No. 5385834 applicable

; DEVELOPMENTAL STAGE: No. 5385834 applicable

; HAPLOTYPE: No. 5385834 applicable

; TISSUE TYPE: No. 5385834 applicable

; CELL TYPE: No. 5385834 applicable

; ORGANELLE: No. 5385834 applicable

; IMMEDIATE SOURCE:

; LIBRARY: No. 5385834 applicable

; CLONE: PCMV-T297

; POSITION IN GENOME:

; CHROMOSOME SEGMENT: No. 5385834 applicable

; MAP POSITION: No. 5385834 applicable

; UNITS: No. 5385834 applicable

; FEATURE:

; NAME/KEY: Inactive T7 f10 promoter mutant (-11G to T) located between nucleotides 198 to 220

; IDENTIFICATION METHOD: The clone was constructed from PKK232-8 and the inserted "promoter" was sequenced.

; OTHER INFORMATION: If the mutant T7 promoter between positions 198 and 220

; PUBLICATION INFORMATION:

; AUTHORS: Ikeda, R.A., Chang, L.L., and Warschamann, G.S.

; TITLE: Selection and Characterization of a Mutant, T7, RNA Polymerase that Recognizes an Expanded Range of T7-like Promoters

; JOURNAL: Biochemistry

; VOLUME: 32

; ISSUE: 35

; PAGES: 9115-9124

; DATE: Sept. 7, 1993

; DOCUMENT NUMBER:

; FILING DATE:

; PUBLICATION DATE:

; DOCUMENT NUMBER:

; FILING DATE:

; PUBLICATION DATE:

; FILING DATE:

; PUBLICATION DATE:

; RELEVANT RESIDUES IN SEQ ID NO: 1 to 5110

US-08-106-433A-6

Query Match 22.5%; Score 404; DB 1; Length 510;  
 Best Local Similarity 96.5%; Pred. No. 8.9e-91; Mismatches 0; Indels 0; Gaps 0;  
 Matches 413; Conservative 0; MisMatches 15; Insets 0;

QY 1267 aggtcgacccatggggatcgaaacttgggtccacccatccggaaactcagaag 1326  
 Db 1251 AGATTCCTGGGAGTAGCCCGGACCTGGCCACTGACCTGAG 1310  
 QY 1327 tgaacccgcgtacggcgatggtagtgggtctccacatggactcg 1386  
 Db 1311 TGAACCGCGTACGCCATGGTAGTGGGTCTCCCATGGAGACTGCC 1370  
 QY 1387 aggcataacaacaaacaaaggctcgaaactgggtttatctgtgt 1446  
 Db 1371 AGGCATCAATAAACGAAAGGCTCAGTCGAAGACTGCCATTCTGAGT 1430  
 QY 1447 ttgcggtaaaggcttcgtggatggacaaatccggcgaggatggatgg 1506  
 Db 1431 TTGTCGGGAACGCTTCCTGACTAGGACAAATCCGGGGAGGATTGAGCTGG 1490





CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/106,433A  
 FILING DATE: 08/13/93  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:

APPLICATION NUMBER: No. 5385834 Applicable  
 FILING DATE: No. 5385834 Applicable  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Deveau, Colton, and Marquis  
 NAME: Colton, Laurence P.  
 REGISTRATION NUMBER: Reg. No. 5385834 33,371  
 REFERENCE/DOCKET NUMBER: 10733-161

TELECOMMUNICATION INFORMATION:

TELEPHONE: 404-875-8817  
 TELEFAX: 404-875-8505  
 INFORMATION FOR SEQ ID NO: 9:

SEQUENCE CHARACTERISTICS:

LENGTH: 5110 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: circular  
 MOLECULE TYPE: other nucleic acid  
 HYPOTHETICAL: No  
 ANTI-SENSE: No

FRAGMENT TYPE: No. 5385834 applicable  
 ORIGINAL SOURCE:  
 STRAIN: No. 5385834 applicable  
 INDIVIDUAL ISOLATE: No. 5385834 applicable  
 DEVELOPMENTAL STAGE: No. 5385834 applicable  
 HAPLOTYPE: No. 5385834 applicable  
 TISSUE TYPE: No. 5385834 applicable  
 CELL TYPE: No. 5385834 applicable  
 ORGANELLE: No. 5385834 applicable  
 IMMEDIATE SOURCE:  
 LIBRARY: No. 5385834 applicable

FEATURE:

NAME/KEY: Inactive T7 f10 promoter mutant (-9C to T) located between nucleotide 198 to 220  
 LOCATION: 198 to 220  
 IDENTIFICATION METHOD: The clone was constructed from the inserted "promoter" was sequenced.  
 IDENTIFICATION METHOD: PKK232-8 and the inserted "promoter" was sequenced.  
 OTHER INFORMATION: If the mutant T7 promoter between positions 198 and 220

PUBLICATION INFORMATION:

AUTHORS: Ikeda, R.A., Chang, L.L., and Warshama, G.S.  
 TITLE: Selection and Characterization of a Mutant T7 RNA Polymerase that Recognizes an Expanded Range of T7-like Promoters  
 JOURNAL: Biochemistry  
 VOLUME: 32  
 ISSUE: 35  
 PAGES: 9115-9124  
 DATE: Sept. 7, 1993  
 DOCUMENT NUMBER:  
 FILING DATE:  
 PUBLICATION DATE:  
 DOCUMENT NUMBER:  
 FILING DATE:  
 PUBLICATION DATE:  
 RELEVANT RESIDUES IN SEQ ID NO: 1 to 5110

US-08-106-433A-9

Query Match 22.5%; Score 404; DB 1; Length 5110;  
 Best Local Similarity 96.5%; Pred. No. 8.9e 91;  
 Matches 413; Conservative 0; Mismatches 15; Indels 0; Gaps 0;  
 Qy 1267 agatcgacatcgccatqcaagttggccactgaccatgcggaaactcagaag 1326  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  

Db 1251 AGAATTGGCTGGCGCACTAGCGGGTGGTCCACCCATGCCAGACTCAGAG 1310  
 Qy 1327 tgaacccgcgttgcgttgtgtgtgggtcccttcatggagaggactgcc 1386  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 1311 TGAACGCCCTAGCGCGGAAAGTGAGTCGGTCTCCCATGGAGAGTAGGGACTGCC 1370  

Db 1431 TTRGCGGTGAAAGCTCTTGAGTGGACAAATCGCCCGGAGGGATTGAAGTTGG 1490  
 Qy 1387 aggatcaaataaacgaaaggctcgatggaaactggcgttttcgtttatctgtgt 1446  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 1371 AGGCATCAATAAACGAGGCAGTGAAAGACTGGCTTGGTTACGTGCTG 1430  

Db 1447 ttgtcggttaacgtcttcgttgatggagaaatccggccggagggattgaacgttgc 1506  
 Qy 1447 ttgtcggttaacgtcttcgttgatggagaaatccggccggagggattgaacgttgc 1506  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 1491 AAGCAGCAGCGCCGGAGGGTGGGGCAGACGCCGCCAACGCCAGCAATT 1550  

Db 1567 aagcagaaggccatctggatggatggcccttttggtttacaacttcgttcgtcc 1626  
 Qy 1567 aagcagaaggccatctggatggatggcccttttggtttacaacttcgttcgtcc 1626  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 1551 AAGCAGAAGGCCATCTGAGGATGGCTTGTGCTTACAACTCTCCNGTCGRC 1610  

Db 1627 atatctacaaaggccatcccccacacatcgatctaacttcgtttttgtcatcaggaaa 1686  
 Qy 1627 atatctacaaaggccatcccccacacatcgatctaacttcgtttttgtcatcaggaaa 1686  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 1611 ATATCTACAGGCCATCCCCCACAGATACTGGTAACACTGCGTTTGCATCAGGAA 1670  

Db 1671 GCAGCTGT 1678  
 Qy 1687 gcaatctat 1694  
 |||||  
 Db 1671 GCAGCTGT 1678

RESULT 8  
 US-08-106-433A-10  
 ; Sequence 10; Application US/08106433A  
 ; Patent No. 5385834  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Richard A. Ikeda  
 ; TITLE OF INVENTION: Mutant T7 RNA Polymerase GP1(Lys222)  
 ; NUMBER OF INVENTIONS: Exhibiting Altered Promoter Recognition  
 ; NUMBER OF SEQUENCES: 23  
 ; CORRESPONDENCE ADDRESS:  
 ; ADRESSEE: Deveau, Colton, and Marquis  
 ; STREET: Two Midtown Plaza, Suite 1400,  
 ; STREET: 1360 Peachtree St., NE  
 ; CITY: Atlanta  
 ; STATE: Georgia  
 ; COUNTRY: USA  
 ; ZIP: 30309  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storage  
 ; COMPUTER: Apple Macintosh  
 ; OPERATING SYSTEM: Macintosh 7.1  
 ; SOFTWARE: Microsoft Word 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/106,433A  
 FILING DATE: 08/13/93  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: No. 5385834 Applicable  
 FILING DATE: No. 5385834 Applicable  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Deveau, Colton, and Marquis  
 NAME: Colton, Laurence P.  
 REGISTRATION NUMBER: Reg. No. 5385834 33,371  
 REFERENCE/DOCKET NUMBER: 10733-161  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 404-875-8817  
 TELEFAX: 404-875-8505  
 INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 5110 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double

MOLECULAR TYPE: circular nucleic acid  
 TOPOLOGY: circular  
 HYPOTHETICAL: No  
 ANTI-SENSE: No  
 FRAGMENT TYPE: No. 5385834 applicable  
 ORIGINAL SOURCE:  
 ORGANISM: No. 5385834 applicable  
 STRAIN: No. 5385834 applicable  
 INDIVIDUAL ISOLATE: No. 5385834 applicable  
 DEVELOPMENTAL STAGE: No. 5385834 applicable  
 HAPLOTYPE: No. 5385834 applicable  
 TISSUE TYPE: No. 5385834 applicable  
 CELL TYPE: No. 5385834 applicable  
 ORGANELLE: No. 5385834 applicable  
 IMMEDIATE SOURCE:  
 LIBRARY: No. 5385834 applicable  
 CLONE: PCM-P1198  
 POSITION IN GENOME:  
 CHROMOSOME SEGMENT: No. 5385834 applicable  
 MAP POSITION: No. 5385834 applicable  
 UNITS: No. 5385834 applicable  
 FEATURE:  
 NAME/KEY: Intermediate T7 f10 promoter mutant (-8T to G) located between n  
 LOCATION: 198 to 220  
 IDENTIFICATION METHOD: The clone was constructed from  
 OTHER INFORMATION: The mutant T7 promoter between positions 198 and 220 is  
 PUBLICATION INFORMATION:  
 AUTHORS: Ikeda, R.A., Chang, L.L., and Warshamana, G.S.  
 TITLE: Selection and Characterization of a Mutant T7  
 JOURNAL: RNA Polymerase that Recognizes an Expanded Range  
 OF T7-LIKE PROMOTERS  
 VOLUME: 32  
 ISSUE: 35  
 PAGES: 9115-9124  
 DATE: Sept. 7, 1993  
 DOCUMENT NUMBER:  
 FILING DATE:  
 PUBLICATION DATE:  
 DOCUMENT NUMBER:  
 FILING DATE:  
 PUBLICATION DATE:  
 RELEVANT RESIDUES IN SEQ ID NO: 1 to 5110  
 8-106-433A-10

RESULT 9 ; Sequence 11, Application US/08106433A  
 ; Patent No. 5385834  
 GENERAL INFORMATION:  
 APPLICANT: Richard A. Ikeda  
 TITLE OF INVENTION: Mutant T7 RNA Polymerase  
 NUMBER OF SEQUENCES: 23  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Devreau, Colton, and Marquis  
 STREET: Two Midtown Plaza, Suite 1400,  
 CITY: Atlanta  
 STATE: Georgia  
 COUNTRY: USA  
 ZIP: 30309  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Stt  
 COMPUTER: Apple Macintosh  
 OPERATING SYSTEM: Macintosh 7.1  
 SOFTWARE: Microsoft Word 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/106,433A  
 FILING DATE: 08/13/93  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: No. 5385834 Applicable  
 FILING DATE: No. 5385834 Applicable  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Deveau, Colton, and Marquis  
 NAME: Colton, Laurence P.  
 REGISTRATION NUMBER: Reg. No. 5385834 33,37  
 REFERENCE/DOCKET NUMBER: 10733-161  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 404-875-8817  
 TELEFAX: 404-875-8505

INFORMATION FOR SEQ ID NO: 11:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 5110 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: circular  
 MOLECULE TYPE: other nucleic acid  
 HYPOTHETICAL: No  
 ANTI-SENSE: No  
 FRAGMENT TYPE: No. 5385834 applicable  
 ORIGINAL SOURCE:  
 ORGANISM: No. 5385834 applicable  
 STRAIN: No. 5385834 applicable  
 INDIVIDUAL ISOLATE: No. 5385834 applicable  
 DEVELOPMENTAL STAGE: No. 5385834 applicable  
 HAPLOTYPE: No. 5385834 applicable  
 TISSUE TYPE: No. 5385834 applicable  
 CELL TYPE: No. 5385834 applicable  
 ORGANELLE: No. 5385834 applicable  
 IMMEDIATE SOURCE:  
 LIBRARY: No. 5385834 applicable  
 CLONE: PCM-T286  
 POSITION IN GENOME:  
 CHROMOSOME SEGMENT: No. 5385834 applicable  
 MAP POSITION: No. 5385834 applicable







Db 1671 GCAGCTGT 1678  
 RESULT 13  
 Sequence 15, Application US/08106433A  
 US-08-106-433A-15  
 Patent No. 5385834  
 GENERAL INFORMATION:  
 APPLICANT: Richard A. Ikeda  
 TITLE OF INVENTION: Mutant T7 RNA Polymerase GP1(Lys222)  
 TITLE OF INVENTION: Exhibiting Altered Promoter Recognition  
 NUMBER OF SEQUENCES: 23  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Deveau, Colton, and Marquis  
 STREET: Two Midtown Plaza, Suite 1400,  
 CITY: Atlanta  
 STATE: Georgia  
 COUNTRY: USA  
 ZIP: 30309  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storage  
 COMPUTER: Apple Macintosh  
 OPERATING SYSTEM: Macintosh 7.1  
 SOFTWARE: Microsoft Word 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/106, 433A  
 FILING DATE: 08/13/93  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: No. 5385834 Applicable  
 FILING DATE: No. 5385834 Applicable  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Deveau, Colton, and Marquis  
 NAME: Colton, Laurence P.  
 REGISTRATION NUMBER: Reg. No. 5385834 33,371  
 REFERENCE/DOCKET NUMBER: 10733-161  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 04-875-8817  
 TELEFAX: 404-875-8505  
 INFORMATION FOR SEQ ID NO: 15:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 510 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: circular  
 MOLECULE TYPE: other nucleic acid  
 HYPOTHEICAL: No  
 ANTI-SENSE: No  
 FRAGMENT TYPE: No. 5385834 applicable  
 ORIGINAL SOURCE:  
 ORGANISM: No. 5385834 applicable  
 STRAIN: No. 5385834 applicable  
 INDIVIDUAL ISOLATE: No. 5385834 applicable  
 DEVELOPMENTAL STAGE: No. 5385834 applicable  
 HAPLOTYPE: No. 5385834 applicable  
 TISSUE TYPE: No. 5385834 applicable  
 CELL TYPE: No. 5385834 applicable  
 ORGANBLE: No. 5385834 applicable  
 IMMEDIATE SOURCE:  
 LIBRARY: No. 5385834 applicable  
 CLONE: pCM-T221  
 POSITION IN GENOME:  
 CHROMOSOME SEGMENT: No. 5385834 applicable  
 MAP POSITION: No. 5385834 applicable  
 UNITS: No. 5385834 applicable  
 FEATURE:  
 NAME/KEY: Intermediate T7 f10 promoter mutant (-6A to G) located between n  
 LOCATION: 198 to 220  
 IDENTIFICATION METHOD: The clone was constructed from  
 IDENTIFICATION METHOD: pRK222-8 and the inserted "promoter" was sequenced.  
 OTHER INFORMATION: The mutant T7 promoter has two positions 198 and 220, i.e.

COUNTRY: U.S.A.  
ZIP: 53717-1914

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/801,344

FILING DATE: 08-08-2001

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Sara, Charles S.

REFERENCE/DOCKET NUMBER: 09820.037

TELECOMMUNICATION INFORMATION:

TELEPHONE: 608-831-2100

TELEFAX: 608-831-2105

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 4476 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: circular

MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO

ANTI-SENSE: NO

ORIGINAL SOURCE:

ORGANISM: Vector pSE380

US-08-801-344-2

Mon Sep 16 16:42:23 2002

us-09-719-017a-2.rni

Page 14

Job time: 157 sec